Supplementary Information

White light emission from a mixture of pomegranate extract and carbon nanoparticles from the extract

Vikram Singh and Ashok Kumar Mishra*

Department of Chemistry, Indian Institute of Technology Madras
Chennai 600036, India

*Corresponding author. Tel.: +91 44 22574207; fax: +91 44 22574202
E-mail address: mishra@iitm.ac.in
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Figure S1. FTIR spectrum of CNPs
**Figure S2.** Zeta Potential of the CNPs in aqueous medium by using DLS.
Figure S3. (a) Hypothetically additive fluorescence spectra of pom (58 µM) and CNPs (b) Chromaticity plot for the projected fluorescence emission spectra after addition of individual emissions of pom and CNPs at pH 1.2 \( [\lambda_{\text{exc}} = 380 \text{ nm}] \)
Figure S4. Fluorescence emission spectra of CNPs in various concentrations \([\lambda_{\text{exc}} = 380 \text{ nm}]\)
Figure S5. Colour of a ‘white light emitting solution’ incorporated PVA film under visible light [where, $[\text{cyan-3-glu}] = 58 \, \mu\text{M}$ and $[\text{CNPs}] = 0.3 = \text{mg/mL}$]
Figure S6. Emissive colour response of WLE in aqueous solution at pH 1.2 [$\lambda_{\text{exc}} = 380 \text{ nm}$]
Figure S7. Emissive colour response of incorporated PVA film $[\lambda_{\text{exc}} = 380 \text{ nm}]$